



NC Task Force for Racial Equity in Criminal Justice

Heather Cox
Strategic Account Executive
NC Account Team

Eric Hunley
Director
Customer Advisory

Steve Shirley
Director
Public Safety





Introduction
SAS in North Carolina
SAS Justice and Public Safety
Procedural Justice
- Approach and Focus Areas
Relevant Projects

SAS Overview

Transforming a world of **data** into a world of **intelligence**.

Analytics For Everyone. Everywhere.

CORE PRINCIPLES



- Almost 14,000 employees
Worldwide

Employees: **7,400+**
Customers: **11,000+**



Employees: **450+**
Customers: **800+**



Employees: **3,600+**
Customers: **7,400+**



Employees: **2,500+**
Customers: **5,500+**

- Installed in over 83,000
businesses, government and
university sites

- 92 of the top 100 companies on
2018 Fortune Global 1000

★ Global R&D Center

SAS in North Carolina

Public Sector

Current SAS Footprint

Enterprise License Agreement



NC Dept. Of Health & Human Services
NC Dept. of Commerce
NC Dept. of Environmental Quality
NC Dept. of Information Technology
NC Dept. of Public Safety
NC Education Lottery

GDAC Hosted



CJLEADS
NC ISAAC
Controlled Substances Reporting System
NC HealthConnex
NC Child Welfare ASSIST

Other Hosted

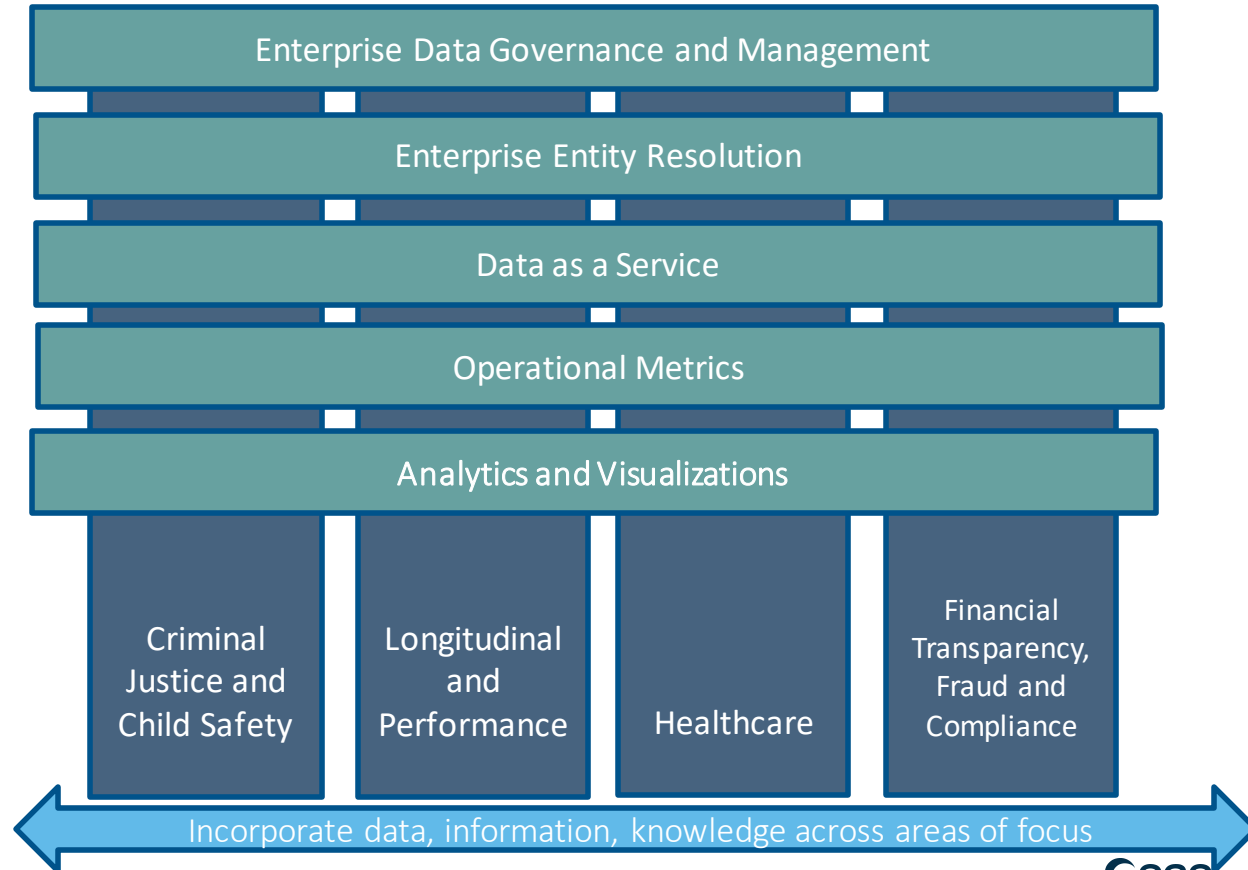


Transportation Analytics Center
Revenue and Expenditure Analysis,
DMV License & Theft, Map Act Tool, Bridge Analytics

Enabling Legislation

- Government Data Analytics Center – N.C.G.S. 143B-1385
- Health Information Exchange Authority – N.C.G.S. Chapter 90-414
- Educational Longitudinal Data System – N.C. G.S. Chapter 116E

GDAC Focus Areas



SAS Justice & Public Safety



What is it?

An analytic platform for criminal justice professionals that delivers immediate insight into critical areas related to law enforcement, justice, corrections drive both tactical and public policy decisions and improve outcomes



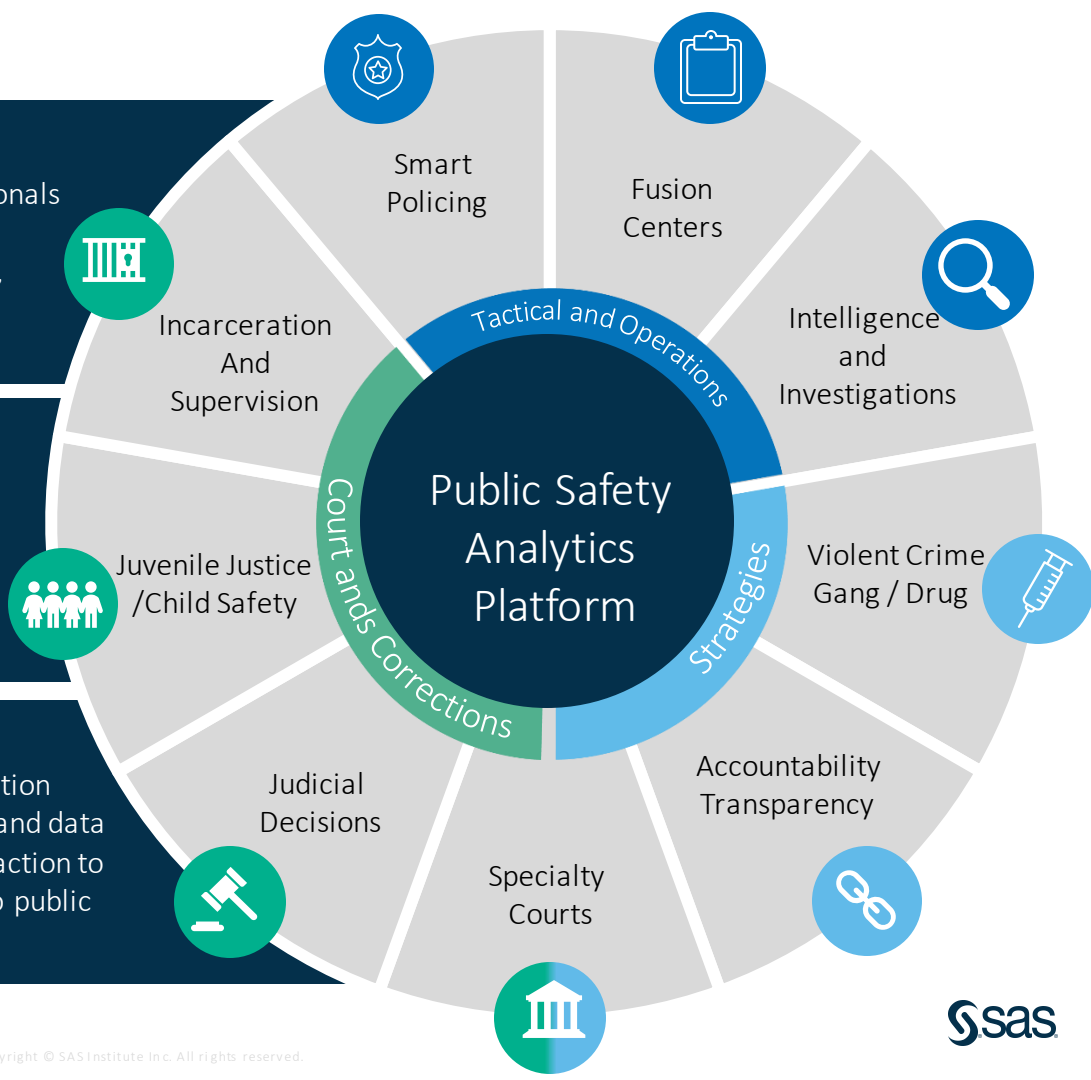
Who needs it?

Policymakers, court officials, law enforcement, prison, community corrections, juvenile justice,



What are the benefits?

Strengthen multi-agency coordination and utilization of key data resources, improves risk assessment and data driven decisions, and enables real-time, tactical action to respond effectively to the most serious threats to public safety.



SAS Approach

THE PRESIDENT'S TASK FORCE ON 21ST CENTURY POLICING



*Implementation Guide
Moving from Recommendations to Action*

**Building
Trust &
Legitimacy**

**Policy
&
Oversight**

**Technology
&
Social Media**

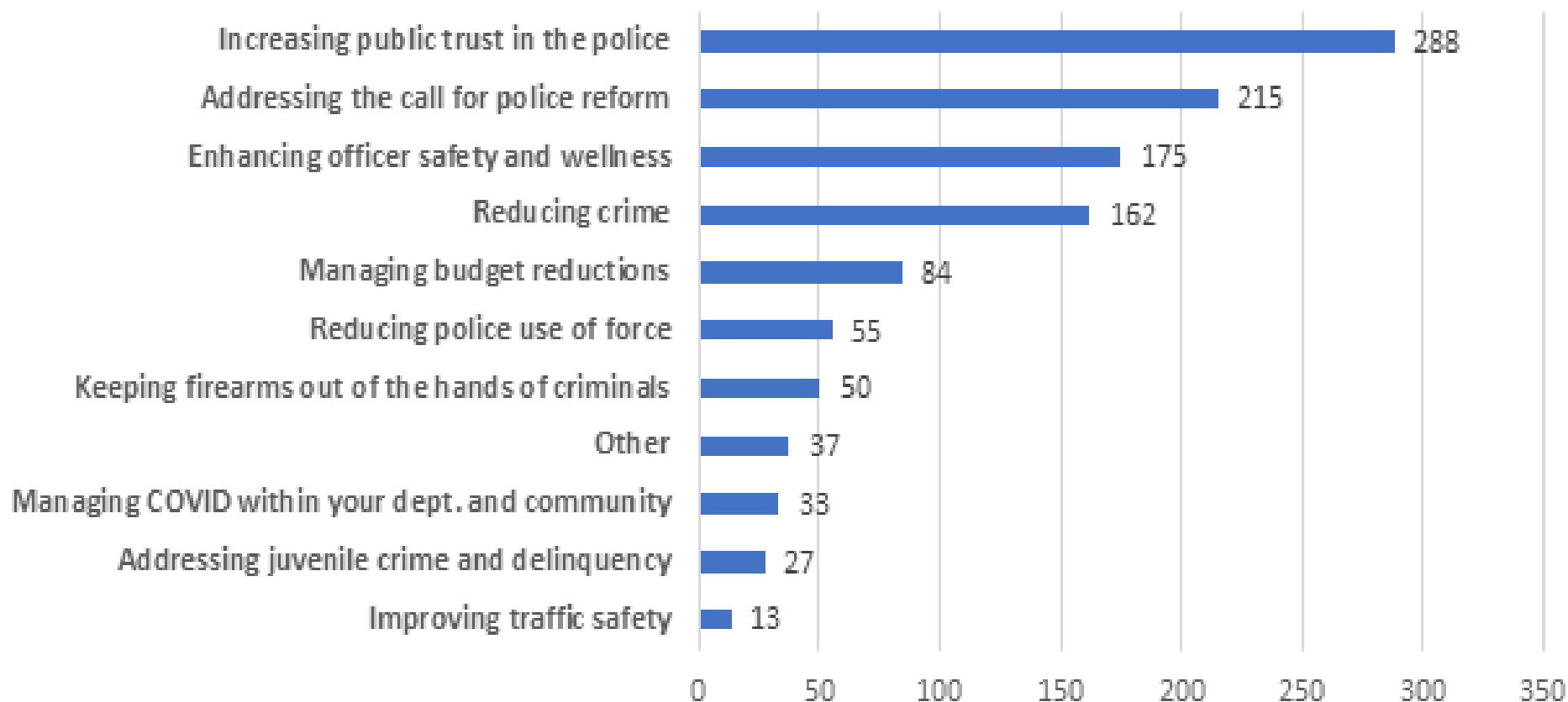
**Community
Policing &
Crime
Reduction**

**Training
&
Education**

**Officer
Safety
&
Wellness**

Most Important Issues for 2021 and Beyond

n = 378



Focus Areas

Agency and Inter-governmental Data Collection, Sharing and Advanced Analysis

- Inter-governmental data sharing and analysis
- Transparency
- Workforce risk detection and supervisory tier support
 - Performance and behavior
 - Wellness and resilience
- Equitable allocation of public services


Focus Areas

Use Case Examples

- Accountability and Transparency
 - Analysis of data representing police interactions with the community
 - Assess risk and wellness through the examining performance and behavioral data
 - Produce insights at agency, unit and individual level
- Use of Force Reporting and Analysis
 - Public reporting at agency, state-level
- Disparity in services and housing Opportunities

Accountability & Transparency

Measuring Risk, Performance and Behavior



Minimize adverse incidents
through officer wellness to
increase safety, legitimacy, and
trust in the community

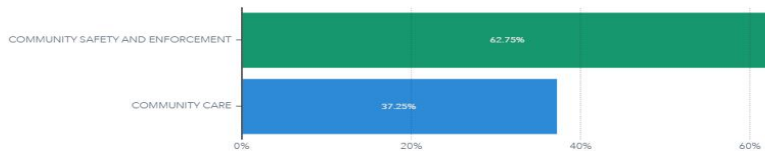
Agency Performance Measures

Please [Click Here](#) for more information about this dashboard

Use of Force Rate
0.1%

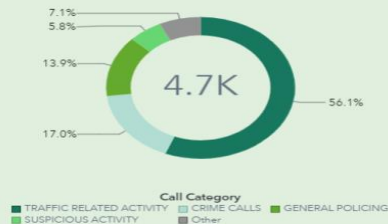
Uses of Force
107

Officer Calls
99K

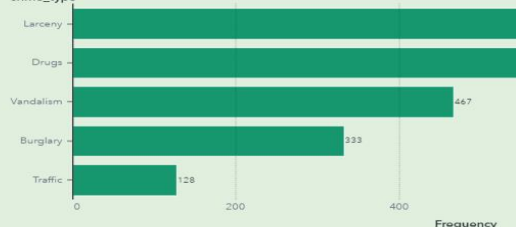


Enforcement and Safety Activities

Community Safety and Enforcement



Arrests by Crime Type



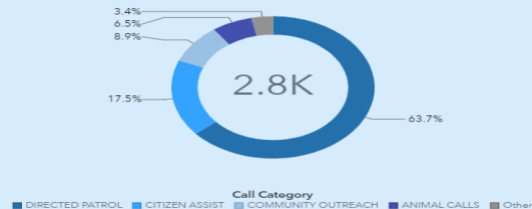
1,619

Citations

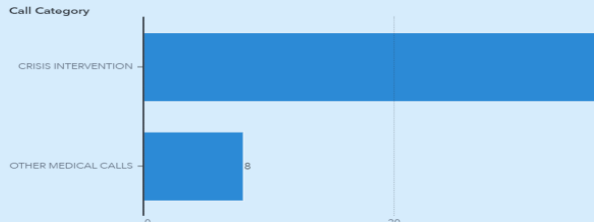
597

Community Care and Outreach Activities

Community Care



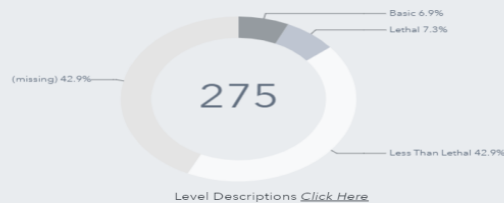
Crisis Interventions and Other Medical Calls



Community Outreach

249

Use of Force - Level



Use of Force Dispositions



Officer Involved Vehicle Crashes

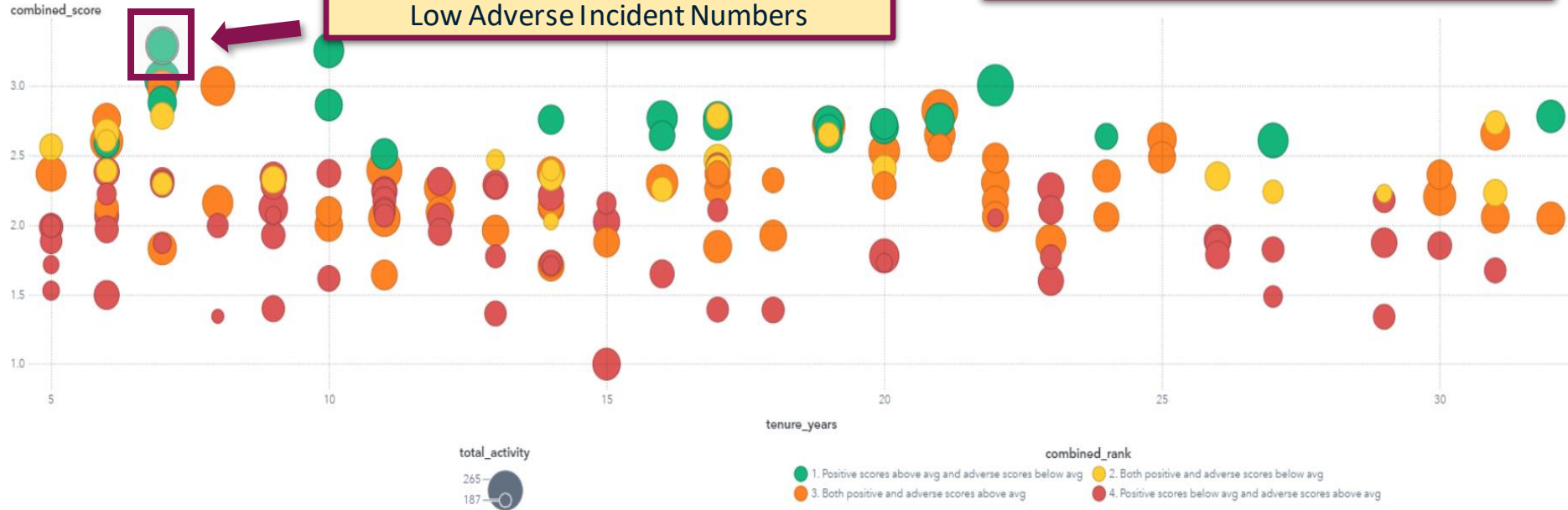
5

Officers Performance Dashboard

Analysis of Entire Command

Patrol Officers Performance Ranking: combined_score

High Enforcement and Outreach Numbers
Low Adverse Incident Numbers

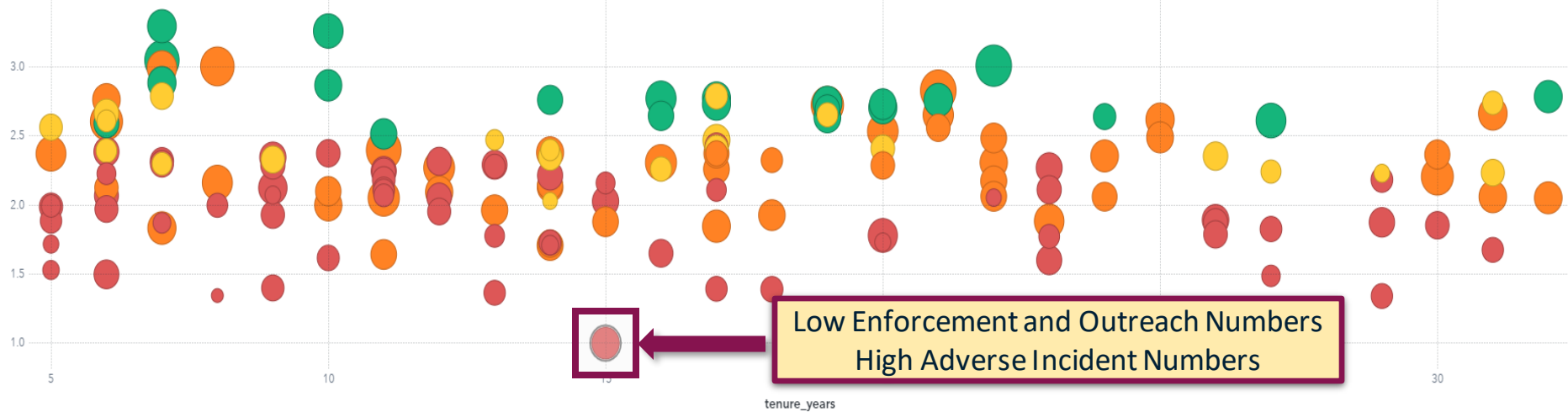


tenure_years	combined_score	total_activity	combined_rank	Officer Name	division
7	3.29	234	1. Positive scores above avg and adverse scores below avg	Officer Margaret Kiefer	Field
10	3.26	238	1. Positive scores above avg and adverse scores below avg	Officer Joseph Morissette	Field
7	3.05	259	1. Positive scores above avg and adverse scores below avg	Officer Joseph Vazquez	Field
22	3.01	265	1. Positive scores above avg and adverse scores below avg	Officer Eva Caplan	Field
8	3.00	255	3. Both positive and adverse scores above avg	Officer Ronnie Brown	Field

Analysis of Entire Command

Patrol Officers Performance Ranking: combining arrests, stops, complaints, and use of force scores

combined_score



total_activity



tenure_years

combined_score ▲

total_activity combined_rank

Officer Name

division

15	1.00	229	4. Positive scores below avg and adverse scores above avg	Officer Hattie Whitsel	Field
29	1.34	209	4. Positive scores below avg and adverse scores above avg	Officer Clarence Scott	Field
8	1.35	187	4. Positive scores below avg and adverse scores above avg	Officer Raymond Tiller	Field
13	1.37	209	4. Positive scores below avg and adverse scores above avg	Officer Nathan Greene	Field
18	1.39	211	4. Positive scores below avg and adverse scores above avg	Officer Ronald Reneau	Field

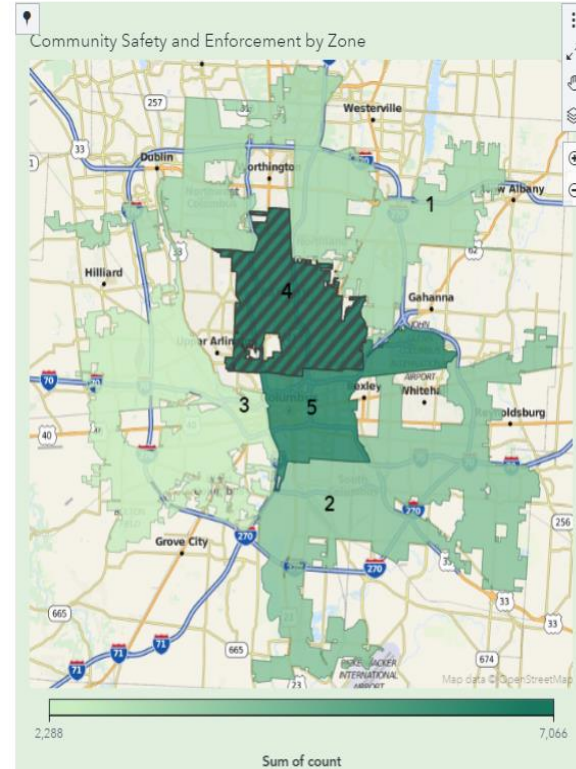
Unit Comparison

Frontline Supervisors

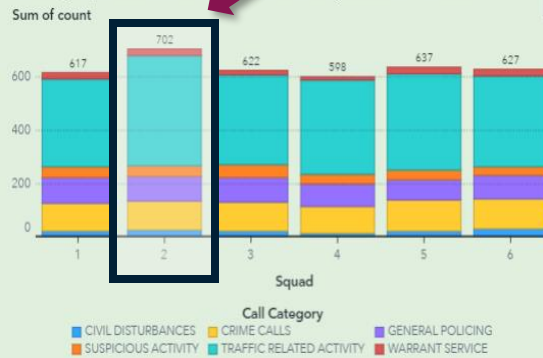
Unit 2 – Consistently Top Enforcement Numbers

Look Back in Months ▾

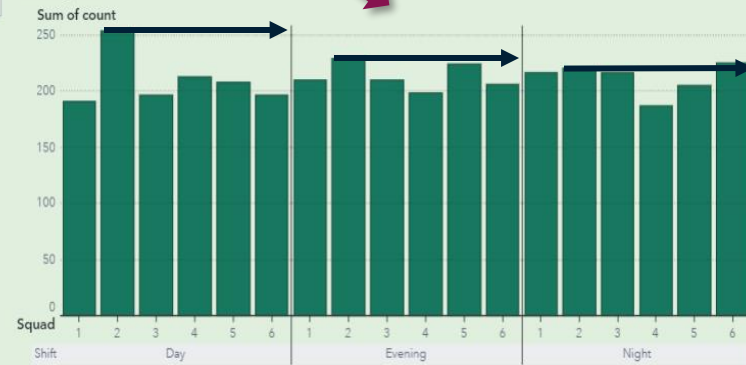
Squad Overview ⋮



Calls By Squad - Select Bars to Filter Calls by Shift and Trends



Calls by Shift



Trends by Squad

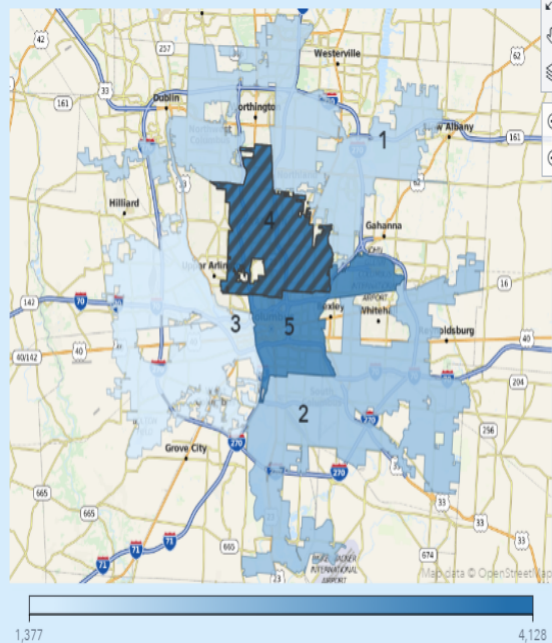


Unit 2 – Consistently High Outreach Numbers

Look Back in Months ▾

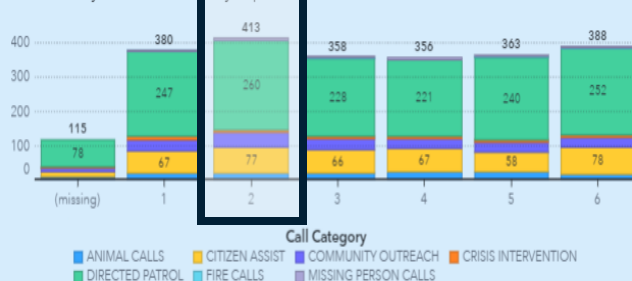
Squad Overview ▾

Community Care Activities



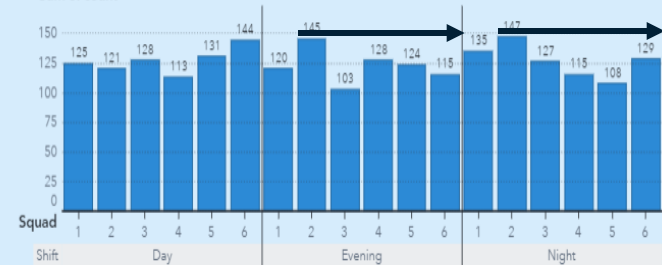
Sum of count

Community Care Activities by Squad



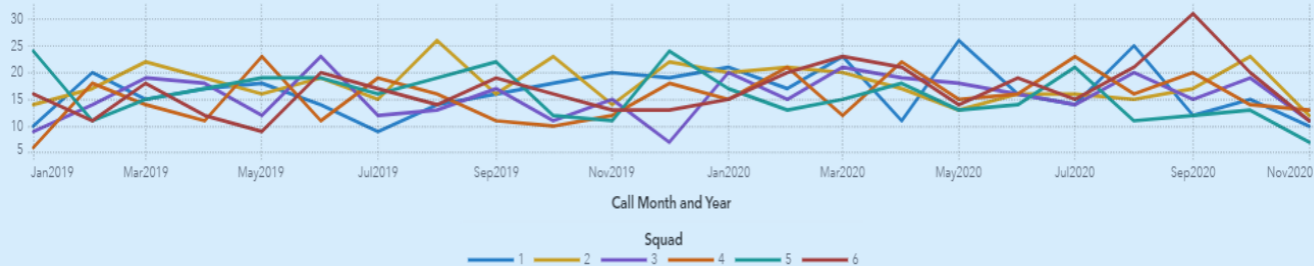
Calls by Shift

Sum of count



Sum of count by Call Month and Year grouped by Squad

Sum of count

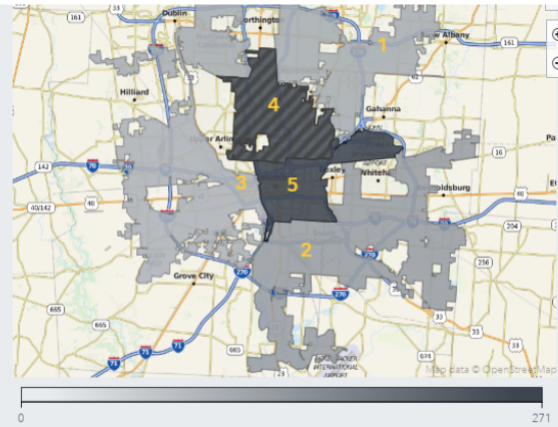


Squad Comparison

Unit 2 – Frequent In-Policy UoF

Look Back in Months ▾

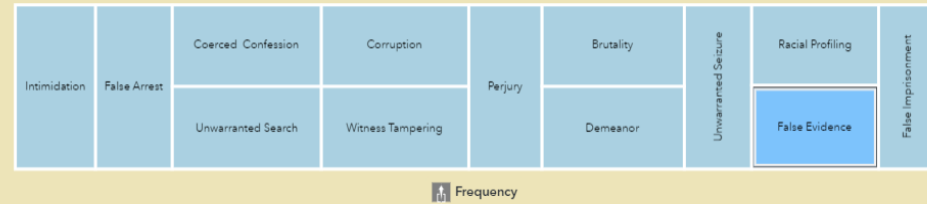
Squad Overview ▮



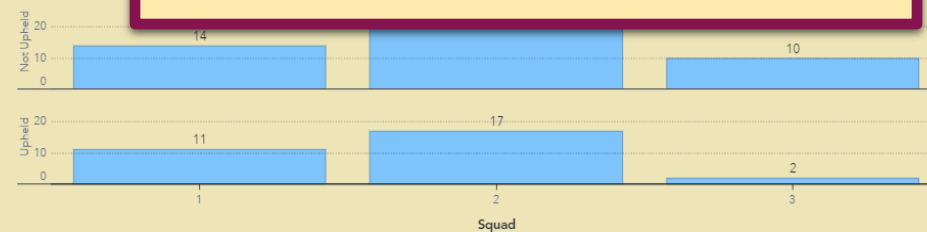
Use of Force Total



Complaints On Officers by Type



Complaints by Outcome



Unit 2 – No Lethal UoF

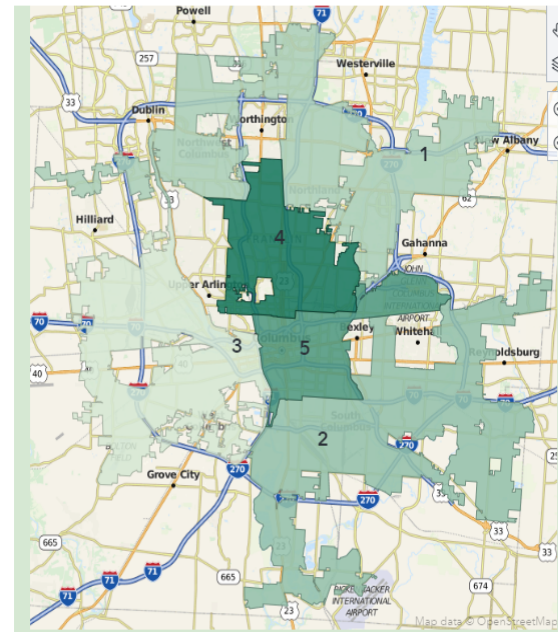
Officer Comparison

Frontline Supervisor

Look Back in Months ▾

Supervisor View : Officer View

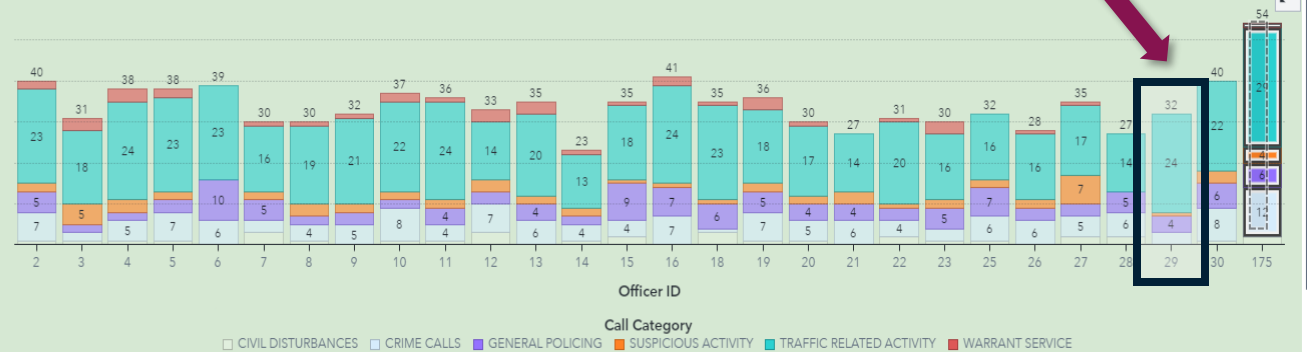
Looking back 12 months from 03Feb2020 to 28Jan2021 for Squad 1



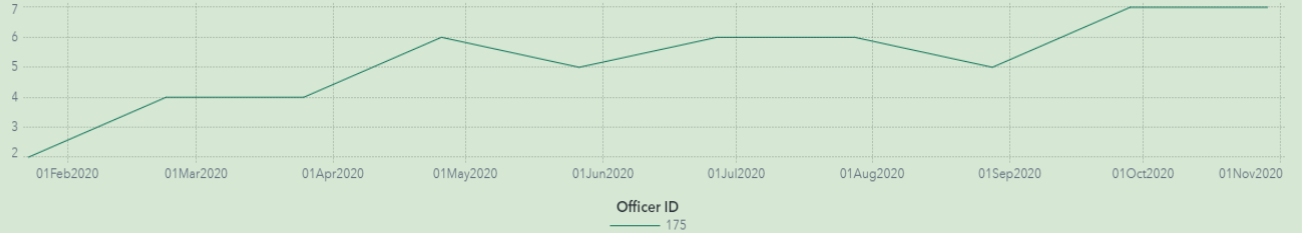
Sum of Count

Officer 29 – Limited Diversity in Enforcement Activities

Activity count by officer



Trends by Officer



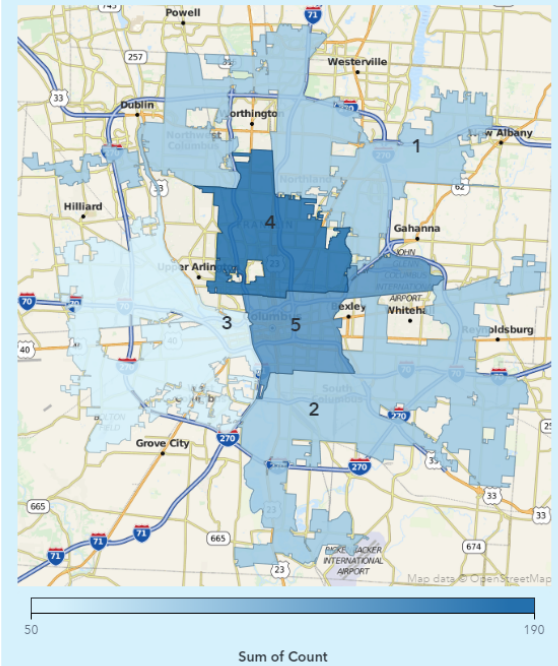
Look Back in Months ▾

Supervisor View : Officer View

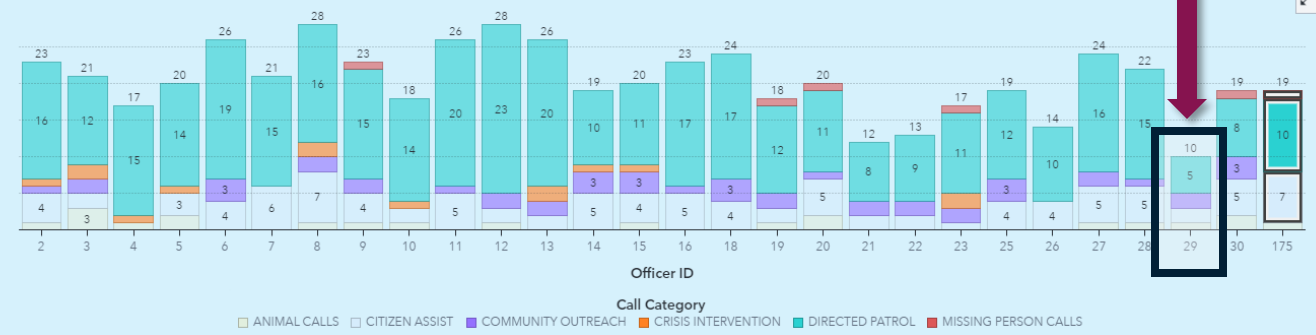
Looking back 12 months from 03Feb2020 to 28Jan2021 for Squad 1

Officer 29 – Low Outreach Numbers

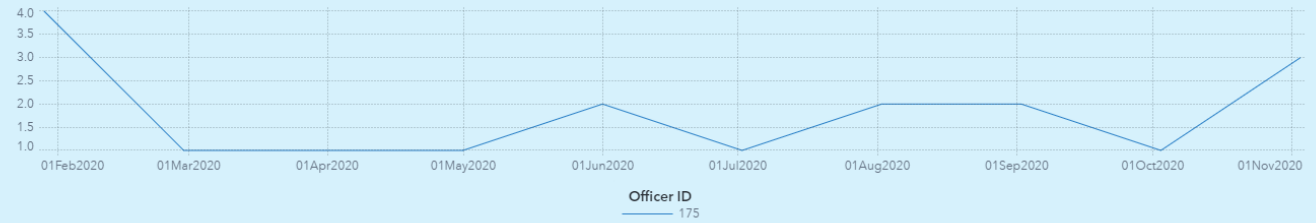
Community Care by Zone



Activity count by officer by shift



Trends by Officer



Officer Comparison

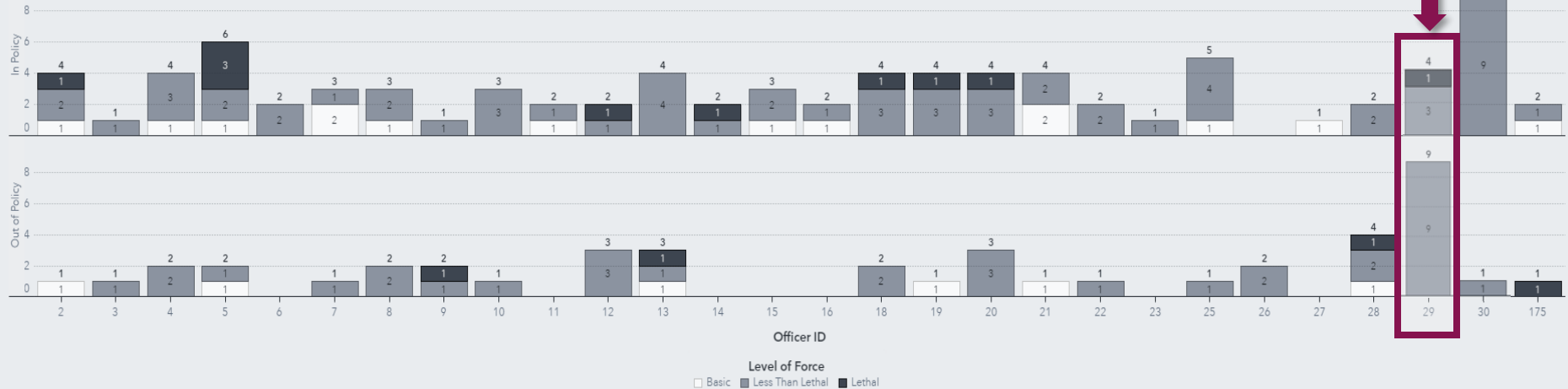
Look Back in Months ▾

Officer 29 – Highest Out-of-Policy UoF

Use of force counts by type by officer

Disposition

Use of Force Total



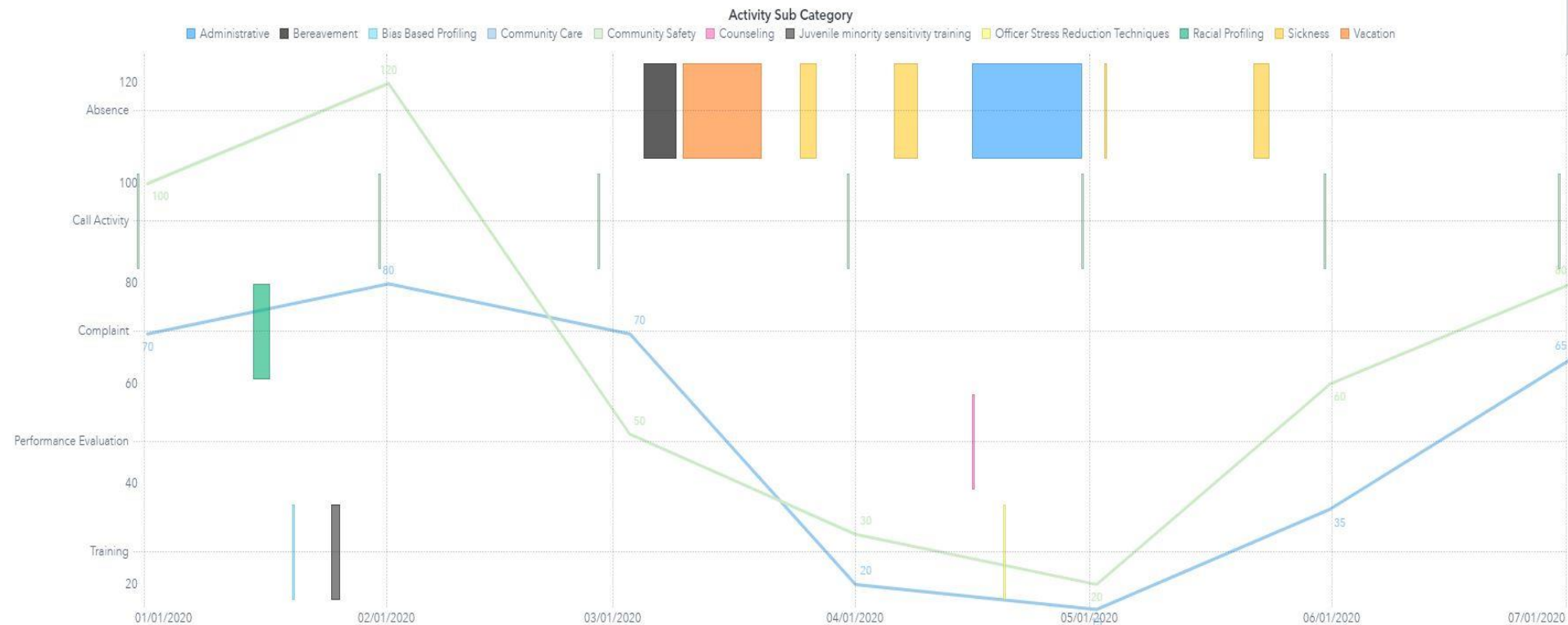
Officer ID	Use of Force Total ▾	Level of Force	Disposition
29	9	Less Than Lethal	Out of Policy
13	4	Less Than Lethal	In Policy
25	4	Less Than Lethal	In Policy
4	3	Less Than Lethal	In Policy
5	3	Lethal	In Policy
10	3	Less Than Lethal	In Policy

12/31/2019 to 07/30/2020

12/31/2019

01/18/2021

Activities for Officer Smith Overlayed with Call Count Timeline



Project Kaleidoscope

Misdemeanor Justice Data Analysis

What can only be learned by merging data?

POLICE ARREST, SHERIFF JAIL, COURT DISPOSITION

- Geographic variables of the incident and/or arrest location
- How did the call for service get generated and for what reason
- What incident level characteristics influence court dispositions, such as domestic, gang and shooting variables?
- Are there socio-economic differences in jail days?
- Do social services programs decrease recidivism?



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SAS Data For Good Proof of Concept

- Project started in 2019 with philanthropic support from SAS
- Primary goal was to determine whether police arrest data, sheriff jail data and court disposition data could be merged and visualized through interactive dashboards
- Secondary goal is to automate the data collection processes, similar to what SAS already does with GDAC (CJLEADS) project

Data Analysis Is Driving Justice Reforms

By analyzing state data, lawmakers are discovering what's driving costs, where inequities exist in the system and how to identify who is incarcerated, how long they've been in and whether they should be there.



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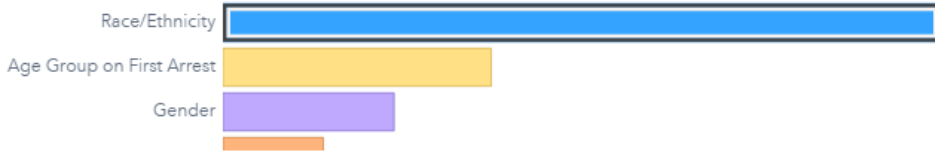


Explanations – Multiple Arrests

What are the characteristics of Rearrest?

Rearrest has a 68.33% chance (7.6K of 11K) of being Arrested Multiple Times. It's the most common Rearrest value.

What factors are most related to Rearrest?



What are the groups based on Race/Ethnicity by the chance of Rearrest being Arrested Multiple Times?

< High Low >

76.29%

If Race/Ethnicity is Black, then Rearrest has a 76.29% chance (6.3K out of 8.3K cases) of being Arrested Multiple Times.

60.31%

If Race/Ethnicity is Caucasian or Indian, Age Group on First Arrest is Juvenile or 21 - 24, then Rearrest has a 60.31% chance (193 out of 320 cases) of being Arrested Multiple Times.



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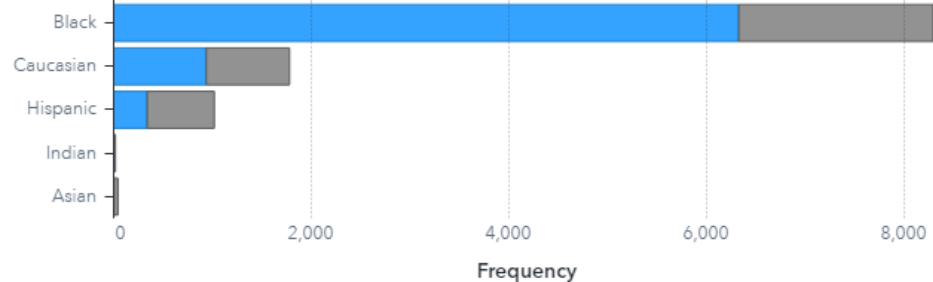
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What is the relationship between Rearrest and Race/Ethnicity?

Race/Ethnicity



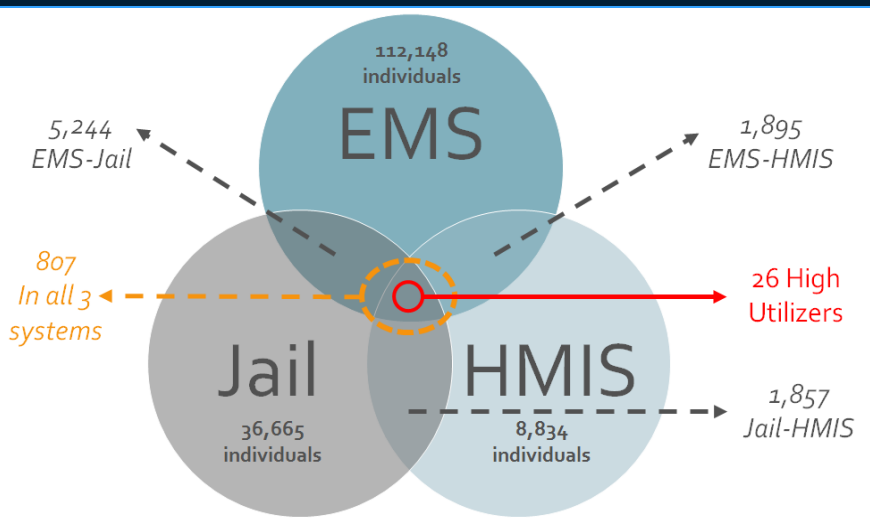
Arrested Multiple Times Arrested Once

When Race/Ethnicity is Black, the total count of Arrested Multiple Times is a high value; when Race/Ethnicity is Caucasian, Hispanic, Asian or Indian, the total count of Arrested Multiple Times is a low value. The most common Race/Ethnicity value is Black.

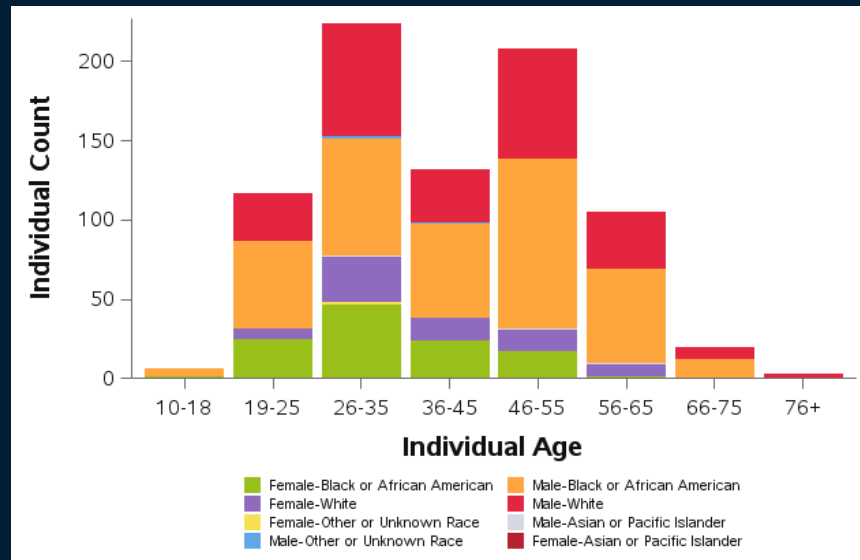
North Carolina

Wake County

Intersection of Jail, EMS, and Homelessness



Analysis of these **807 individuals** shows that this group is **26 and 55 years old (70%)** and is **predominately male (75%)**. **Black or African American men** are disproportionately represented (46%) in this population.



807 individuals were identified with at **least one incident** in all three systems. **26** of those individuals were classified as **High Utilizers**

State of New Jersey OAG - Use of Force

Department of Law Enforcement and Public Safety (DLPS)

Office of Law Enforcement Professional Standards (OLEPS)

Interactive Public Facing Use of Force Dashboard



State



County



PD



Officer

Four Distinct Views
Scheduled Go Live 3/31/2021

Total Number of Reports

5,517

Number of Incidents

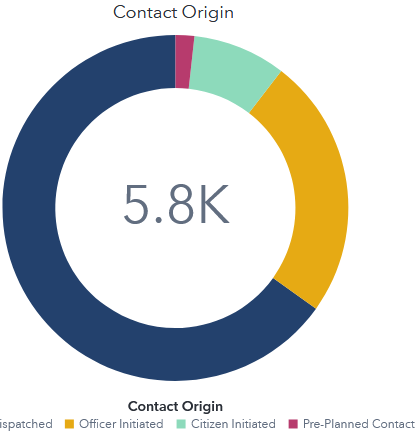
3,013

Average Number of Reports per Incident

1.83

Number of Officers Reported

4,014

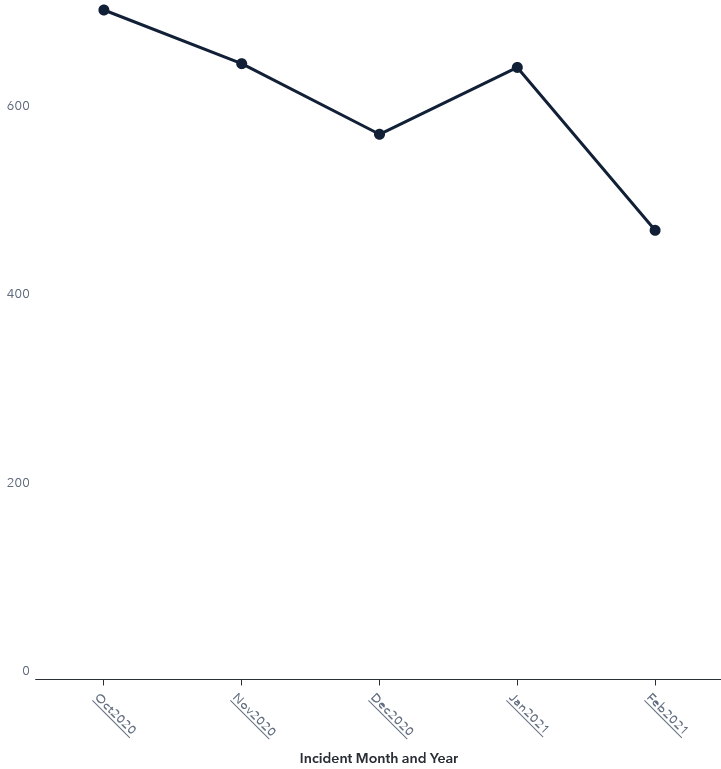


Reports by Agency

County	Agency Name	Number of Reports	Percent who Used Force
Essex	Newark PD	309	17.8%
Hudson	Jersey City PD	218	15.2%
Other	New Jersey Transit Police	173	32.7%
NJSP	NJ State Police	115	2.7%
Camden	Camden PD	110	20.5%
Mercer	Trenton PD	105	21.2%
Passaic	Paterson PD	102	12.7%
Cumberland	Vineland PD	101	50.0%
Bergen	Bergen Co Sheriffs Dept	81	10.4%
Hudson	Bayonne PD	77	23.9%
Mercer	Hamilton Twp PD	74	89.3%
Middlesex	Perth Amboy PD	71	36.9%
Burlington	Willinaboro PD	70	52.4%

Incidents Over Time

Trend in Number of Incidents



Select one or more race/ethnicity categories to filter the data on this page

- ☐ Asian
- ☐ Black
- ☐ Hispanic
- ☐ White
- ☐ Other
- ☐ Two or More
- ☐ Not Provided

Total Number of Reports

5,499

Total Number of Incidents

2,995

Total Number of Subjects

3,680

Subject Demographics

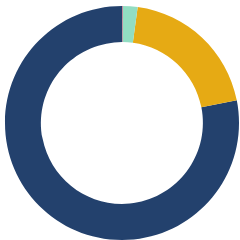
<

Gender

Age Groups

Race/Ethnicity

>



Subject Gender

Male Female Unknown Gender Non-Conforming/X

Perceived Condition of Subject

Under influence of alcohol/drugs/both

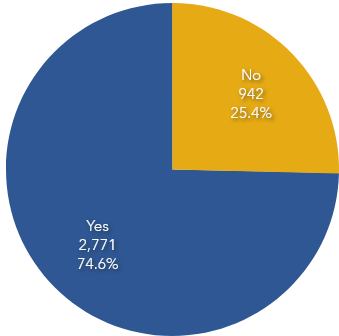


No unusual condition noted

Potential Mental Health Incident

Other unusual condition noted

Subjects by Arrest Status



Reason Subject Not Arrested

Medical/Mental Health Incident

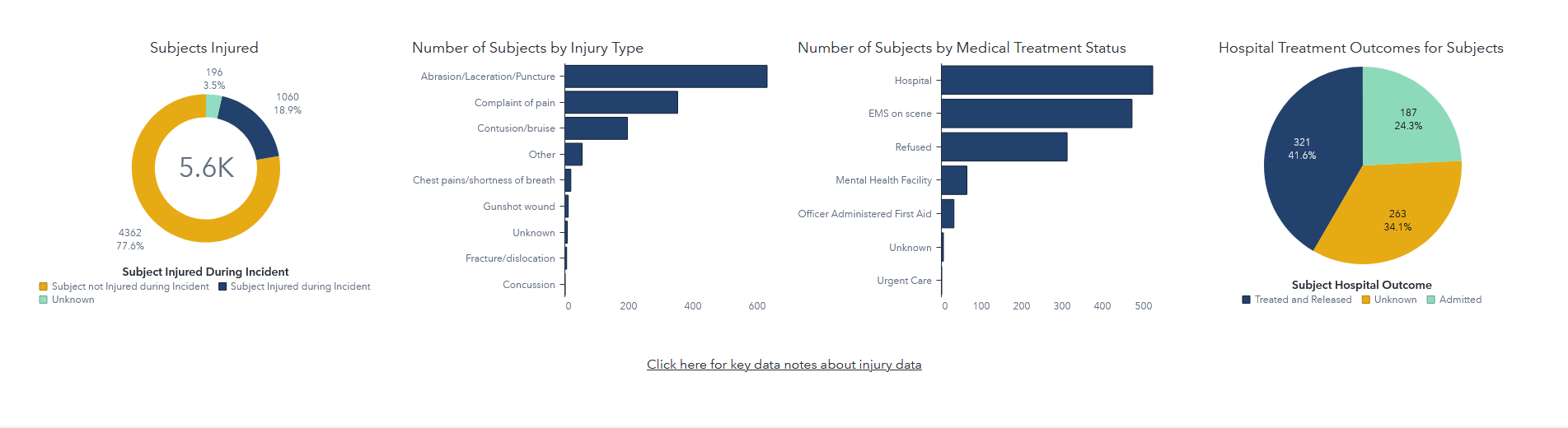
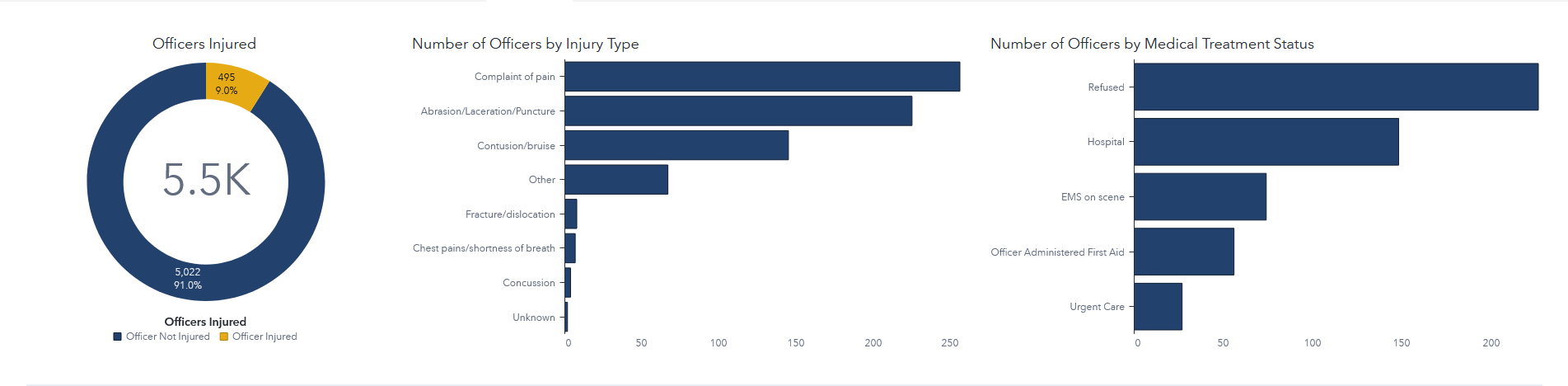


Other

(missing)

Subject Fled

Note: The data shown in this page do not include animals. The metrics are shown for people only.
[Click here for key data notes about subject data](#)



The Center for NYC Neighborhoods

The Center for NYC Neighborhoods

❖ The Center's Mission:

- The Center is a non-profit organization committed to promoting and preserving affordable homeownership for New Yorkers.

❖ What sparked this project?

- Between 2005 and 2017, the Borough of Queens lost 22,700 black homeowner households.
- The Center launched the Black Homeownership Project to help combat the decline of Black homeownership in NYC.

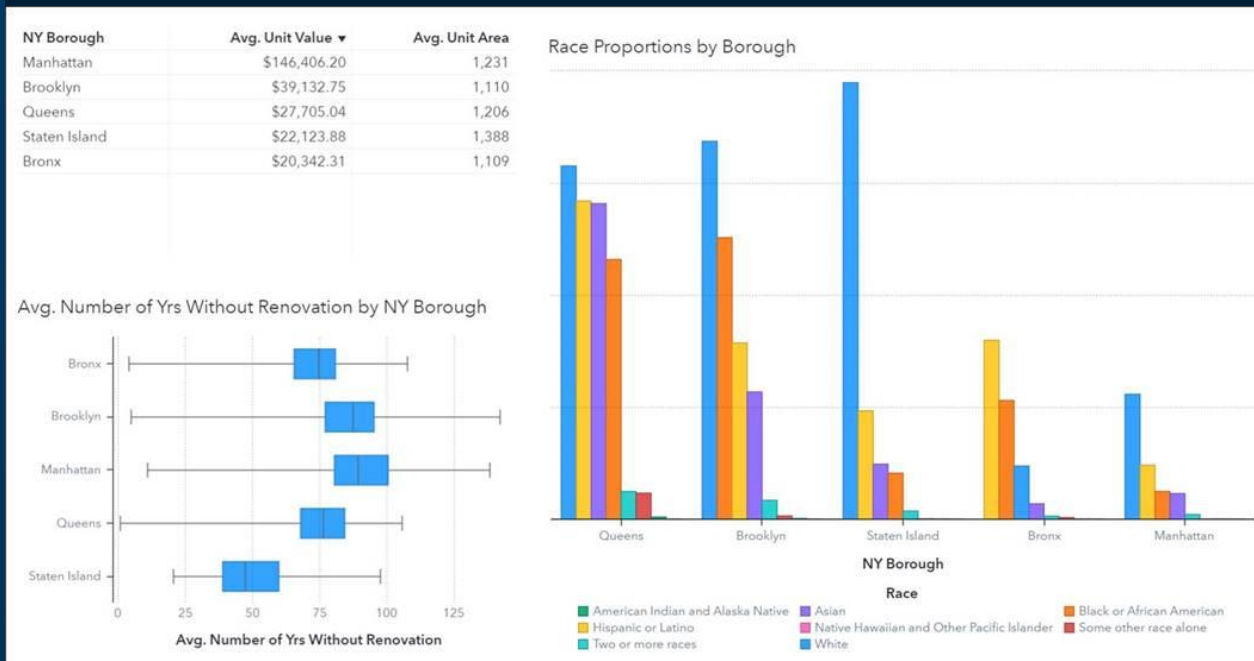
❖ How did SAS get involved?

- Citi Bank account team facilitated the connection between SAS Social Innovation team and The Center.

Findings

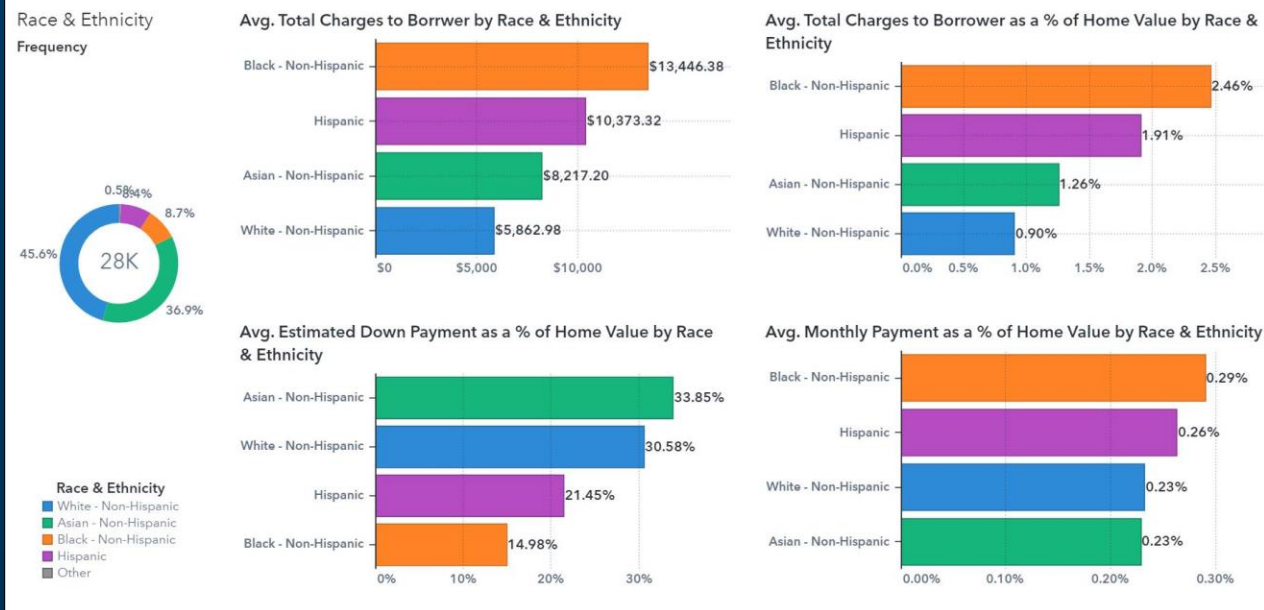
- Home values are lower for neighborhoods that have a higher proportion of minority homeowners (Black and Hispanic), even after controlling for age despite there not being any differences in age of the homes and square footage
- Reports of home maintenance violations for 2 or more home maintenance deficiencies tend to be higher in minority owner occupied 1-3 family housing units.
- Home Condition (sound vs. deteriorating vs. dilapidated) showed no significant differences by race.

Topic 1: Condition and Value of Homes



Findings

The total cost of acquiring home purchase loans (both Conventional and FHA) is, on average, **higher for Black and Hispanic borrowers** than for other races in NYC, even when controlling for differences in down payment and home value.



Topic 2: Closing Costs

Findings

Project Outcome

How The Center used the findings

- ❖ Used findings to help shape 5 pilot projects to strengthen Black homeownership in NYC
 - Down Payment Assistance Navigator
 - Matched Savings Program
 - Small Landlord Services
 - “Generation to Generation” Estate Planning
 - Tenant Opportunity to Purchase Assistance
- ❖ Used findings to launch an effort to create their own underwriting system

The Center for NYC Neighborhoods

SAS help the Center by integrating data from multiple data sets and worked in collaboration with the service to develop and apply SAS analytical models that produce insights that assist in the development and implementation of targeted programs to help increase Black homeownership and address key challenges

A series of horizontal bars of varying lengths and colors (teal, blue, and dark blue) are arranged vertically on the left side of the slide, creating a decorative pattern.

Questions

Heather.Cox@sas.com

sas.com

